

SPECIFICATION SHEET

MHZ SMD CRYSTAL SEAM SEAL CASE 6035 XC SERIES

SPECIFICATION SHEET NO.	S0515 - XC18M43200S220			
ORIGINAL MFG/PART NO.	TGS Crystals/CM63 18M432A20-20-50-40-40TLF			
NEXTGEN PART CODE	XC18M43200S220 Indicate This Code For RFQ /Order			
DATE	May 15, 2025			
REVISION	A2 Updated With Most Recent Data			
DESCRIPTION AND	MHz SMD Crystal Seam Seal, Case 6035 XC series, 4 pads			
MAIN PARAMETRICS	Dimension L6.0*W3.5*H1.2mm 18.432MHz, Tolerance ±20ppm, Load Capacitor 20pF Frequency stability ±50ppm, ESR 40ohm Max, Operating Temp. Range -40°C ~+85°C Reflow Profile Condition 260 °C Max. Package in Tape/Reel, 1000pcs/Reel REACH/RoHS/RoHS III Compliant			
CUSTOMER				
CUSTOMER PART NUMBER				
CROSS REF. PART NUMBER				
MEMO				

VENDOR APPROVE

Issued/Checked/Approved







Effective Date: May 15, 2025

CUSTOMER APPROVE

Date:



MHZ SMD CRYSTAL SEAM SEAL CASE 6035 XC SERIES

MAIN FEATURE

- MHz SMD Crystal L6.0*W3.5*H1.2mm 4 Pads
- · Low Cost and short Lead time
- · High Precision
- High Frequency Stability
- Reflow Profile Condition 260 ° C Max.
- Cross More Competitors Part
- REACH/RoHS/RoHS III Compliant

APPLICATION

- Bluetooth, Wireless Communication Set
- Communication Electronics

ELECTRICAL CHARACTERISTICS

- See Page 5~6 For Different Part Code.
- All Products Parameters are Subject To NextGen Components' Final Confirmation.



Image shown is a representation only. Exact specifications should be obtained from the product dimension.





PART CODE: XC18M43200S220 MHZ SMD CRYSTAL SEAM SEAL CASE 6035 XC SERIES

HOW TO ORDER

Please Follow Up Part Code Guide And Indicate NextGen Part Code XC18M43200S220 For RFQ and Order.

PART CODE GUIDE

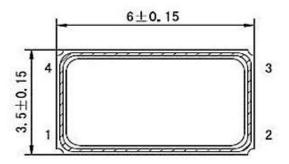


CODE	NAME	KEY SPECIFICATION OPTION
хс	Product Series Code	MHz SMD Crystal, Seam Seal, 4 Pads Case Dimension L6.0*W3.5*H1.2mm
18M432	Frequency Range Code	18M432: 18.432MHz or Specify Frequency Range
008	Internal Control Code	Letter or Digits (A~Z, a~z or 0~9)
220	Parameters Code	Letter or Digits (A~Z, a~z or 0~9)
xx	Special/Custom Parameters Code	Letter or Digits (A~Z, a~z or 0~9) for Special Parametric; Blank: N/A

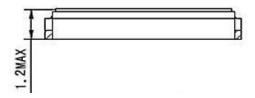
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DIMENSION - Unit: mm, Case 6035

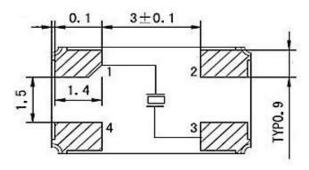




Side View

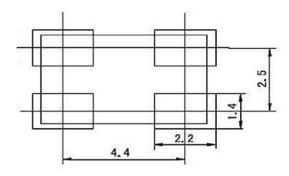


Bottom View



#1 Crystal #2 Ground #3 Crystal #4 Ground

Recommend Pad Layout



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GENERAL SPECIFICATION -Ta = 25°C

	600.00	VALUE				CONDITION
PARAMETER	SYMBOL	MIN.	TYPE	MAX.	UNIT	
Mode of Vibration Code		Fundamental				
Frequency Tolerance	△F/F0	±10	-	±50	ppm	@ 25°C
Load Capacitance	CL	8	-	30	pF	
Frequency Stability	Тс	±10	-	±50	ppm	
Operating Temp. Range	TOPR	-40	-	+85	°C	
Storage Temp. Range	Tstg	-50	-	+105	°C	
Drive Level	DL	-	-	10	μW	
Insulation Resistance	IR	500	-		mΩ	@100V ± 15VDC
Shunt Capacitance	СО	-	-	7.0	pF	
Aging per year	Fa	-3	-	+3	ppm	1st Year

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ELECTRICAL PARAMETERS - FOR DIFFERENT PART CODE- Ta = 25°C

PART CODE	FREQUENCY RANGE MHz	FREQUENCY TOLERANCE ppm		FREQUENCY STABILITY ppm	OPERATING TEMPE. RANGE	EQUIVALENT SERIES RESISTANCE Ω Max.
XC18M43200S116	18.4320	±10	16	±50	-40 ~ +85	40
XC18M43200S216	18.4320	±20	16	±50	-40 ~ +85	40
XC18M43200S316	18.4320	±30	16	±50	-40 ~ +85	40
XC18M43200S416	18.4320	±40	16	±50	-40 ~ +85	40
XC18M43200S516	18.4320	±50	16	±50	-40 ~ +85	40
XC18M43200S118	18.4320	±10	18	±50	-40 ~ +85	40
XC18M43200S218	18.4320	±20	18	±50	-40 ~ +85	40
XC18M43200S318	18.4320	±30	18	±50	-40 ~ +85	40
XC18M43200S418	18.4320	±40	18	±50	-40 ~ +85	40
XC18M43200S518	18.4320	±50	18	±50	-40 ~ +85	40
XC18M43200S120	18.4320	±10	20	±50	-40 ~ +85	40
XC18M43200S220	18.4320	±20	20	±50	-40 ~ +85	40
XC18M43200S320	18.4320	±30	20	±50	-40 ~ +85	40
XC18M43200S001	18.4320	±40	20	±50	-40 ~ +85	40
XC18M43200S520	18.4320	±50	20	±50	-40 ~ +85	40

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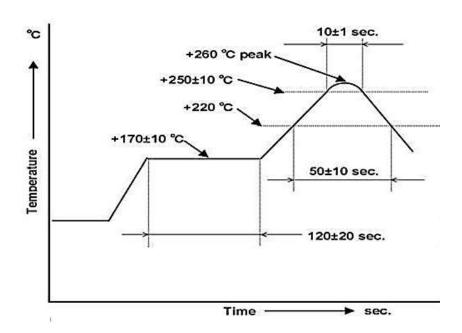
RELIABILITY - MECHANICAL AND ENVIRONMENTAL ENDURANCE

TEST ITEMS	TEST METHOD AND CONDITIONS	REQUIREMENTS	
Drop Free drop from 75cm height on a hard wooden board for 3		Frequency change:	
	times. (Board is thickness more than 30mm.)	≤5ppm	
		Rr as specification	
Shake	Shake frequency 10~55Hz, cyc1~2 minutes, swing 1.5mm,	Frequency change:	
	direction x/y/z, all 30 minutes, test after 1 hours.	≤5ppm	
		Rr as specification	
Airproof	Put crystal into the pressure cabin with alcohol, keep pressure	IR≥500MΩ	
	0.4~0.5mpa 10 minutes, then take out and blow for 5 minutes		
Weld	Temperature: 260±5°C	90% exhibit tin ok	
	Time: 3 seconds		
Humidity	Temperature: +40±2°C	Frequency change:	
	Humidity: 90%~95% R.H.	≤5ppm	
	Time: 250 hours	Rr as specification	
Low temperature	Temperature: -30±2°C	Frequency change:	
	Time: 250 hours	≤5ppm	
	put in room temperature, test after 1 hours.	Rr as specification	
High	Temperature: +85±2°C	Frequency change:	
Temperature	Time: 250 hours	≤5ppm	
	put in room temperature, test after 1 hours.	Rr as specification	
Temperature	-30±3°C/30±3 min~+85±2°C/30±3min, 5 cycles	Frequency change:	
cycling		≤5ppm	
		Rr as specification	

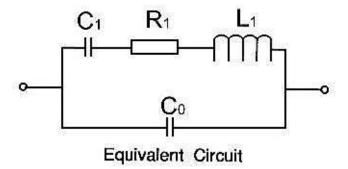


SUGGESTED REFLOW PROFILE - FOR REFERENCE ONLY

Condition:

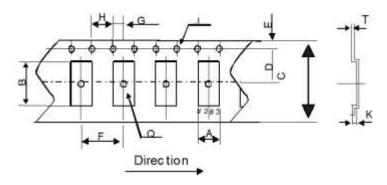


EQUIVALENT CIRCUIT

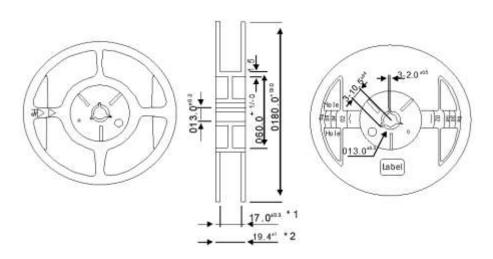


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TAPE AND REEL - Unit: mm, 1000pcs/Reel



SYMBOL	TOLERANCE	DIMENSION (MM)
А	±0.1	3.9
В	±0.1	6.4
С	±0.2	16
D	±0.1	7.5
E	±0.1	1.75
F	±0.1	8.0
G	±0.1	2.0
Н	±0.1	4.0
J	+0.1/0	1.55
К	±0.1	1.5
Q	0.1	1.55
Т	±0.05	0.3



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IMPORTANT NOTES AND DISCLAIMER

- ROHS COMPLIANCE: The levels of RoHS restricted materials in this product are below the maximum
 concentration values (also referred to as the threshold limits) permitted for such substances, or are used in an
 exempted application, in accordance with EU RoHS Directive (EU) 2015/863 EC (RoHS3). RoHS Test Report for
 this product can be obtained can be obtained at Download Center.
- REACH COMPLIANCE: REACH substances of high concern (SVHCs) information is available for this product.
 Since the European Chemical Agency (ECHA) has published notice of their intent to frequently revise the SVHC listing for the foreseeable future, REACH Test Report for this product can be obtained at Download Center.
- All Product parametric performance is indicated in the Electrical Characteristics for the listed herein test
 conditions, unless otherwise noted. Product performance may not be indicated by the Electrical
 Characteristics if operated under different conditions.
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